Records

Scott. II-48—22,202—6-2-28.

P W (1923) Department.

M/o SERIES.

C

G.O. No. 1051W

DATED 19-11-1923

[Despatch Abstract.]

G.F. 21

PUBLIC WORKS DEPARTMENT.

URGENT.

In future letters, please quote No. 814 4/620-24 dated 13-7-22 and short title *

Rec'd ____ Enclosures ____

Reg'd ____ Spare copies ____

Telephone No.
Post Box No.
Telegraphic Address

Dated 13th July

From (Name) P. Hawkins Esq., M.Inst., C.E.,
(Designation) Superintending Engineer,
(Address) Fourth Circle, Coimbatore

SECRETARY TO GOVERNMENT PUBLIC WKS 15 JUL 1922 1364

To The Chief Engineer.
Public Works Department
MADRAS.

Sir,

I have the honour to transmit herewith a revised estimate amounting to Rs.5,33,000/- for constructing a bridge across the Gurpur river in supersession of the estimate of Rs.3,97,000/- sanctioned in G.O.No.1666 W. dated 8th December 1919.

2. The necessity for revision is explained in the accompanying comparative statement and in the letter No. XI Ref. on C.No.1756 D.E. 18 dated 4th May 1922 from the District Board Engineer to the District Board President, South Kanara copy of which is enclosed.

Enclosures:--
1 Detailed estimate.
1 Abstract
1 Data sheet
1 Comparative statement.
1 The original estimate of Rs.3,97,000 (32 pages)
1 Copy of D.B.Engineer's letter No.1756 D.E.18 of 4-5-1922.

6

Sd. P. Hawkins, 7-7-1922,
Supg. Engineer, IV Circle.

(True Copy)

S. Venkatasamy Ayyar
Personal Assistant
12-7-22

S.S./11-7.

2

Copy of letter No.XI Ref. on C.No.1756 D.E.18 dated 4th May 1922, from M.R.Ry., U. Sanjiva Rao Avl., Dist. Board Engineer. S. Kanara. to the President, Dist. Board, South Kanara.

I have the honour to submit herewith a revised estimate for "Constructing a bridge across the Gurpur River" amounting to Rs.5,33,000/-

The necessity for the revision is explained clearly in the accompanying comparative statement.

The main items of excess are under:--

(1) Acquisition of land (20,000) excess.

(2) Sheet piles and diving gear ordered to be used on the work by the Supg. Engineer, (25,000) excess.

(3) Lead for earthwork on approaches which had to be paid as the wargdars objected to the acquisition of any land for borrow pits by the side of the new road. Hence earth had to be brought from distant high ground portions. The excess in this item amounts to nearly (18,000 Rs.)

(4) Minor culverts. The number of which had to be increased on account of the adjacent wargdras' claims for "mamool" waterways (29,600) excess

(5) 12½ % tender over the work done by the contractor (Rs.34,000) excess.

The other items of excess are minor ones due to variation in quantities, on actual execution.

I request that the revised estimate may be sent up immediately and early sanction obtained from the Chief Engineer.

XI Ref on C.No 1756 D E 18.

3

District Board Engineer's Office,

Mangalore, dated 4th May 22

From

M. R. Ry U. Sanjiva Rao Avgl,

District Board Engineer, S.Kanara.

To

The President, District Board,

South Kanara.

Sir,

I have the honour to submit herewith a revised estimate for "Constructing a Bridge across the Gurpur River" amounting to Rs 5,33,000.

The necessity for revision is explained clearly in the accompanying comparative statement.

The main items of excess are under:-

1) Acquisition of land (20,000) excess

2) Sheet piles and diving gear ordered to be used on the work by the Superintending Engineer (25.000) excess.

3) Lead for earthwork on approaches which had to be paid as the wargdars objected to the acquisition of any land for bor row pits by the side of the new road. Hence earth had to be brought from distant high ground portions . The excess in this item amounts to nearly (18,000 Rs).

4) Minor culverts. The number of which had to be increased on account of the adjacent wargdars' claims for 'mamool' water-ways (29,600) excess.

5) 12½ % tender over the work done by the contractor (Rs 34,000) excess

The other items of excess are minor ones due to variation in quantities ,on actual execution.

I request that the revised estimate may be sent up immediately and early sanction obtained from the Chief Engineer.

I have etc
SD: U. Sanjiva Rao,
Dt Board Engineer

(True Copy)

Mangalore, [illegible]

4

Extract from the Proceedings of the District Board of South Kanara, dated 31st May 1922.

Present.

M.R.Ry Rao Bahadur N. Subba Rao Avargal, President

" Rao(Bahadur) Saheb P. Krishnan Nambiyar Avargal, Treasury Deputy Collector, Vice- President

Khan Bahadur Haji Abdulla Haji Kasim Saheb Bahadur, President, Taluk Board, Udipi

M.R.Ry H. Ganapathi Rao Avargal, President, Taluk Board, Uppinangady

" M. Shiva Rao Avgl

" A. Somappa "

" A. Balkrishna Shetty "

" T.K. Rama Varma Raja "

" B.M. Thingalaya Avargal

" K. Angara "

" S. Ramayya Alva "

" K. Narsing Nayak "

" K. Shreenivasa Hegde "

" K. Shivappa Hegde "

" G. Venugopala Rao "

" V. Raja Laxminatha Swamji Arsu Avargal

" M. Ramkrishna Punja Avargal

" K. Muthayya Shetty "

" K. Raghuchendra Ballal "

" B. Mahabala Holla "

" B. Shreenivasa Rao "

" P. Raghunatha Shetty "

" Dr U. Ramchendra Rao "

" M. Vittal Kamath "

Andar Haji Sayid Hussain Saheb Bahadur

M.K. Muhammed Beary Saheb Bahadur

Faroki Muhammed Ali Saheb Bahadur.

34. Read District Board Engineer's letter Ref C.No 1756 D E. dated 4th May 1922, submitting a revised estimate amounting to Rs 533,000 for constructing a bridge across the Gurpur river.

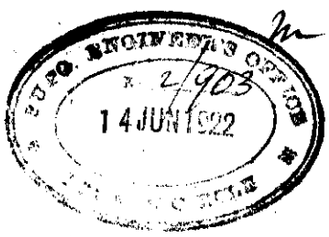
P.T.O

Resolution

Sanctioned.

(True Extract)

President, District Board.



Pmkd

Cno. 1364 wks B. from the S.E. IV O no. 814 W dy 13.7.22
620.216.

Re Revised estimate for a bridge across the Garpen river in South Kanara district.

memo 1364 wks B/22-1 dy 2-8-22.

It is observed, from a perusal of the Comparative Statement, that there are large differences in the grants in many items. The S.E is therefore requested to obtain & submit the plans ~~relating to the revised estimate~~ (but the plans relating to the revised estimate have not been forwarded) of the revised estimate, so that a detailed Scrutiny may be made.

Issued 2/8

2/8
29.7.22

2 The land charges have risen from Rs 10,000/- ~~to~~ to Rs 30,000/- Information should also be furnished when the Revenue dept. was consulted in the first instance as to the cost of land.

Is

The S.E. IV Cmls

dy 2/8

JD

(To remind in a month)

1st Reminder sent 15/9/22.

Ellen
dy 7.22

2/8/22
Jor CE

C F 31.

PUBLIC WORKS **DEPARTMENT.**

9-20

In future letters, please quote No. 12707/Hyp-Z-4 dated 26-x-22 and short title *

Rec'd ..... Enclosures .....

Reg'd ..... Spare copies .....

Telephone No.
Post Box No.
Telegraphic Address

U R G E N T.

Dated 23rd October 1922.

From (Name) P. Hawkins Esq., M.Inst., C.E.,
(Designation) Superintending Engineer,
(Address) Fourth Circle, Coimbatore.

CARRY TO C
WW&B
2253

To The Chief Engineer,
Public Works Department,
Madras.

Sir,

* Subject:- Tracings relating to the Gurpur Bridge.

Reference:- Your memo No.1364 Wks.B/22-1., dated 2-8-22.

I have the honour to forward herewith 2 tracings relating to the Gurpur Bridge received from the President District Board, South Kanara.

2. A copy of District Board Engineer's letter IX Ref C. No.1756/D.E./18., dated 22-9-192 to the President, District Board South Kanara is herewith enclosed for information.

Enclosures:-

2 Tracings.
1 Copy of letter.

Sd. P. Hawkins, 23-10-22,
Supp. Engineer, IV Circle.

(True Copy)

S. Venkataramana Aiyar
Personal Assistant.

26-10-22

S S./25-10.

Copy of letter IX Ref.C.No.1756/D.E/18., dated 22-9-1922 from M.R.Ry., U. Sanjiva Rao Avl., District Board Engineer, South Kanara, Karkal, to the President District Board South Kanara

---

Ref:- Your Ref.on C.No.1418/D.E/22, dated 12-8-1922.

I am forwarding herewith the necessary plans called for in the reference quoted above. In sending the revised estimate, no plans were sent as there is no change in the design.

2. As explained in my office IX Ref.1756 D.E.18 dated 4-5-1922 with which the revised estimate was sent - the excess is mainly due to :--

(a) The purchase and use of sheet piling and diving gear. The expenditure on this item is the cause of an excess of Rs.20000/

(b) Lead and lift for earthwork for approaches. In the original estimate the lift for the high banked portion of the approaches was left out by mistake; and no lead was provided for the earth required, as it was intended to acquire sufficient width of land to allow ba row pits by the side of the bank, During the acquisition proceedings on account of the strong protests from the war-gadars only as much land as is just required for the bank and its safety was acquired. On account of this, the earth required had to be brought from a distance. Besides this the alignment of the South approach was slightly changed to give an easy curve, and to avoid a right angled turn at the commencement. On account of this there was a slight increase in the quantity of earthwork due to the longer length of approach. Also last year there was a big breach in the middle of the southern approach which could not be revetted in time for the monsoon; this breach had to be filled in. Again in the hill portion of the northern approach the width of the road was increased from 18 feet to 20 feet, and at curves to 25 feet for the safety of the heavy motor traffic which has since begun and developed considerably on the road. Slight allowances has also been made for maintaining the new approaches till the completion of the work. During actual excavation other harder soils were met with, than those provided for in the original estimate. The excess on account of these comes to nearly Rs.18,000/-

(c) In the original estimate a lump sum provision for only 4 pacca masonry culverts and 11 pipe sluices was made. During the course of work on petitions and representations from the land owners several more culverts, and some of them of greater vents had to be provided. Actually now 32 culverts - 12 pipe sluices and 20 pacca masonry culverts - have had to be constructed. The excess on account of this comes to Rs.29,650/

(d) When the District Board decided upon the alignment of the north approach road through Gurpur Town, it was given to understand by the Town People that they would not claim compensation for a part of the lands required; and in consultation with the Local Revenue Officials, the cost of the lands to be acquired was estimated at Rs.10,000. But when the actual acquisition proceedings began, every one wanted full compensation; and moreover the price of land in this locality had gone up considerably, particularly as the demand has increased for these lands from owners of tile factories in Mangalore for clay mining operations. The excess on account of land acquisition comes to nearly Rs.20,000/-.

(e) Another large increase is due to the 12½% tender above estimate rates, all the tenders received for this work were for above estimate rates, as the original estimate provides rates of 18-19, which differed very little from the pre-war rates of the schedules of 1913-14-15 The excess on account of this comes to nearly Rs.34,500/-.

The information called for in para (2) of the Chief Engineer's letter is given in Sub para (d) above.

PUBLIC WORKS DEPARTMENT.

Current No. 1364-Works/B dated 15th July 1922 and 1283-Works/B dated 30th October 1922 from the Superintending Engineer, IV Circle No. 814-W/62-Z16 dated 13th July 1922 and 1270-W/620-Z16 dated 26th October 1922.

****

SUBJECT:-- Estimate for constructing a girder bridge across the Gurpur River.

M E M O R A N D U M.

No. 1364 W.S. 22-2 dated..18../12...1922.

*****

The plans and the revised estimate amounting to Rs. 5,33,000 for the construction of a girder bridge across the Gurpur river, South Kanara District, submitted by the Superintending Engineer, IV Circle with his letter read above are returned with the following remarks.

(1) So far as can be seen, the Superintending Engineer has not checked the revised estimate. At any rate he has forwarded it without any comment on the deviations. The Chief Engineer is not therefore in a position to have an independent opinion about the necessity for several deviations from the sanctioned estimate.

(2) A lot of trouble could have been saved and also the sum of Rs.30,000/- -- spent for the purchase of sheet piles and diving apparatus for sinking wells if the District Board Engineer had taken the -- necessary borings at the sites of piers before the sinking of wells was proceeded with reference to para 3(a) of the E.W. Note No. 855-D dated 24th September 1919.

The District Board Engineer should explain through the Superintending Engineer why the instructions given in the E.W.Note were not carried out. A lump sum of atleast Rs.5,000/- should be credited to the estimate for the sheet piles and diving apparatus bought for use on this work, as these articles may either be transferred to works elsewhere or kept by the District Board under Tools and Plant. There is no reason why Government should contribute more than half the amount of a reasonable rent for this plant, which will become the property of the District Board after completion of the work.

(3) It is not clear why, during execution, the steining of the wells has been built of coursed rubble in cement in lieu of the sanctioned proposal to build it either of cement concrete or of coursed rubble in surki mortar. The necessity for this deviation is not explained. The Superintending Engineer has not commented on this. He should do so now.

(4) The District Board Engineer states that the full depth of 5th well was plugged with cement concrete under the orders of the Chief Engineer; as no such orders appear to have been issued by the Chief Engineer. A copy of the order should be sent for perusal.

(5) According to the sanctioned proposal the top 3 feet of the wells is to be plugged with cement concrete. During execution the top 4 feet of the 2nd and 4th well and the top 5 feet of the 3rd well have been filled in with cement concrete. The necessity for this deviation involving extra expenditure is not apparent and no explanation is given for this. The District Board Engineer should

explain and the Superintending Engineer should comment.

(6) Reinforced concrete slabs 1 foot and 1'-3" thick have been allowed over the top of wells and it is said that this was used on account of slight cant in the wells. These slabs cost Rs. 6,365. The authority under which the slabs were used should be stated.

(7) It is stated that steining with concrete broken stone in cement was found necessary for one well, while the detail estimate provides for cement concrete -- steining for 14 feet depth in No.4 well and 4 feet depth in No.5 well. The Superintending Engineer should have noticed this and should now get the District Board Engineer's explanation or correction.

(8) The large excess in the item land compensation could have been avoided had the District Board Engineer obtained before submitting the original estimate, written agreement from the land owners to the effect that they would not claim compensation for the part of the land referred to by him.

(9) It is observed that 12 pipe sluices and 20 pukka masonry culverts have had to be constructed actually as against 4 pukka masonry sluices and 11 pipe sluices proposed originally. The number of culverts and sluices required should have been estimated for correctly in the 1st instance. The District Board Engineer should explain. Without -- adequate explanation there is no reason

why Government should bear any of the increased cost.

(10) The District Board Engineer has neither submitted a longitudinal section of the approach banks showing the position of the culverts etc., nor detailed drawings of the culverts etc., to check the provision in the estimate. The District Board Engineer should explain and submit the necessary plans to the Superintending Engineer with his remarks.

(11) The District Board Engineer has, instead of noting the tendered rate against each item, entered only the sanctioned rate and has at the end allowed a lump sum of Rs. 34,500/- at 12½ per cent above actual work done by the contractor as per tender on Rs.276,373. In the absence of the particulars regarding the tendered rate for each item no opinion can be offered on the reasonableness of the above provision. The District Board Engineer should send full explanation through the Superintending Engineer.

(12) In para 3(b) of the C.E's note dated 24th September 1919 it was pointed out that apron round the piers is unnecessary as the foundations are to be carried down to hard rock level. It is not clear why in the face of the above orders the District Board Engineer has made provision for an apron around the piers in the revised estimate under reference. At any rate there is no need for Government to contribute to this unnecessary item. The District Board Engineer should submit explanation to the Superintending Engineer and the latter should forward with his remarks.

(13) The thickness of binding coat of gravel should be reduced from 3" to 1½".

(14) The actual amount spent on baling should have been put down in lieu of the lump sum provision made in the revised estimate as this work would have been completed at the time of the preparation of the revised estimate. The actual amount should now be noted.

(15) It is also observed that a lump sum of Rs. 5,000/- has been made in the revised estimate for providing road dams. The District Board Engineer should have submitted detailed plans for a byewash showing approaches etc. He should do so now.

(16) Level sections in support of the quantities in the revised estimate for forming approach banks should be submitted. The necessity for increasing the width of the road in the approach banks in the hilly portion and at curves to 20' and 25' respectively and in the town portion in parts by blasting etc., should have been foreseen by the District Board Engineer when he submitted the original estimate. This should be explain ed.

17. The Superintending Engineer is requested to resubmit the estimate at an early date furnishing explanation on the points raised above.

I Reminder despatch

To 29.1.23

The Superintending Engineer, IV Circle.

L.D. DESPATCHED 20 DEC 1922

(Remind after 4 weeks)

Enclosures:-- 2 ~~Plans~~ Tracings

Original & Revised estimate & Comparative Statement, Data sheet

18/12/22

C.E. 19/12

for C.E. (B.R.& General)

15

Very Urgent. Ref on C.No 2468/ D.B.22

29 JAN 23

South Kanara District Board Office,
Mangalore, dated 29th January 1923.

M. R. Ry Rao Bahadur N. Subba Rao Avl,

President, District Board,

South Kanara

To

The Chief Engineer,

Public Works Department,

M a d r a s.

Sir,

With my letter Ref on C.No. 1418/ D.B.22 dated 10th June 22, I forwarded to Government through the Superintending Engineer, Fourth Circle, a revised estimate amounting to -- Rs 535,000 for constructing a bridge across the Gurpur river. I shall be glad to know in what stage the matter now is and when I may expect to receive the Government sanction.

The favour of a very prompt reply is requested.

I have the honour to be,

Sir,

Your most obedient Servant

President

Letter
No. 1344 B3/22-3 30.1.23
To
The President,
Dt Board.
South Kanara.

Sir,

Refee your letter Ref. on C No 2468 D13/22 dated 23rd Jany 23 re: revised estimate for Gurpur Bridge.

The revised estimate was returned on 10/12/22 to the S.E. IV circle with instruction to revise and resubmit it. He has also been asked to ascertain from your Dt. Bd. Engr and report why certain instructions given by the Chief Engr in his No 855 D dated 24.9.19 have not been given effect to. On receipt of reply, the question of recommending the revised estimate for sanction of Govt will be considered.

I have &c.

for CE. 29/1

K.M. 29.1.23

DESPATCHED 30 JAN 1923

Drw. 120 M 26.1.23
620Z/16

W

IR/2203
21.12.22

Public Works Departm
620-B/16 Buildings and Roads Branch

I REMINDER.

REPLY.

WORKS SECTION
7 FEB 23
CURRENT NUMBER

No. 149-W dated 6-2-23
620-B/16

To

The Superintending Engineer
South circle

To The Chief Engineer, P.W.D.,
Chepauk, Madras.

The undersigned ~~has the honour to invite~~ is directed to invite ~~invites~~ attention to the communication noted in the margin and to request that this reminder may be returned at once with information as to—

Memo No. 1364 W2/22-2 dated 18.12.22

(1) the stage at which the matter now is,

(2) the date by which a reply may be expected, and

~~(3) the circumstances which have caused the delay.~~

2. It is requested that the reply to this reminder may be sent not later than 10 days from the date of its receipt.

(By order)

Office Chief Engr's
Station Madras
Dated 29.1.23

Signature. 29.1.23
Superintendent
Designation.

PM. 31.1.23

K.M. 29.1.23

SUBJECT.

Bridge across the Gumpur river.
Contg — revised estimate.

Sir,

South Kanara?

The plans and estimates have been forwarded to the President, District Board, Malabar, in this office No.120-M dated 26-1-23 and the same is awaited from him. On receipt of the plans and estimates they will be duly submitted.

Sd. P.Hawkins, 2-2-23,
Supg.Engineer, IV Circle.

(True Copy)

S. Venkataramana Ayya
Personal Assistant.
5/2/23. 6.2.23

PWD

L.O. Lill 1-3-23 ~~15-3-23~~

K.M. 8.2.23 Rem 8/2

It is not explained why SE kept the proposals over 1 month before forwarding.

DS C.T.M. 9/2 D.S.

Adopt memo on SE is submitted Rem 9/2

P.M. 10/2

17

From the S. E. IV circle No 149 W/620/16 dated 6.2.23

Revised estimate – Gevaspar Bridge

Urgent

Memo. 1364 W/B 22/3 dt 10.2.23

The plans and estimates for the construction of the bridge were despatched to the S. E. on 20.12.22 vide No 1364 W/B/22-2 dt 18.12.22 for revision and resubmission. From the S. E's letter read above, it is observed that they were forwarded to the P. D. B Malabar only on 26.1.23. The S. E. is requested to explain why they were kept with him for over one month before forwarding to the P. D. B Malabar instead of to P. D. B South Kanara.

9.2.23

C.T.I 10/2

To the S. E. IV circle!

DECD. RECEIVED 11.02.1923

Dy. C.

Reminder in 1 week

C.F.31. 9-20

Public Works 18 DEPARTMENT.

In future letters, please quote No. W dated 493 and short title 6203/4

Rec'd ..... Enclosures .....

Reg'd ..... Spare copies .....

Telephone No.
Post Box No.
Telegraphic Address:

Dated 16th February 1923.

From (Name) P. Hawkins, Esq., M.Inst.C.E.,
(Designation) Superintending Engineer,
(Address) Fourth Circle, Coimbatore.

To The Chief Engineer, P.W.D.,
Chepauk, Madras.

Wks/B 2116-3 Sir, 445

Gurupur Bridge.

With reference to your No. 1364-Wks/B/22-3 dated 10th February 1923, I have the honour to report that the estimate was received from you on the eve of the Xmas holidays and as it was not marked as urgent the file was sent to me on the 4th January. I was on tour in January and as I was spending the whole time in inspection work for which the tour was undertaken and dealing only with urgent office work (the alternative being to stay longer on tour drawing Rs.10/- per diem for doing office work which could be done in head quarters) I did not take up this case, which -- required examination, until I returned to head quarters. In view of the fact that this work to which the revised estimate related was done long ago and there was, in any case, no possibility of stopping or modifying the proposals the matter did not appear to be urgent.

The word "Malabar" in my No. 149-W dated 6th instant was a clerical error. The estimate was sent to the President, District Board, South Kanara.

Sd. P. Hawkins, 16-2-23,
Supg. Engineer, IV Circle.
(True Copy)
S. Venkataramana Raju
Personal Assistant.

19-2-23

DS.
This is a reply to DS's remarks on p-16 ante. The revised estimate may be awaited till 7-3-23.
26.2.23

SE's P.A. might have disposed of this, the papers have opportunity only been forwarded to the P.D.B. for necessary action.

E.A.K./19-2-23.

A2567

19

P.W.D.

CP 445 Wks/B. From the S.E. IV circle No 1934 W/Wks B-16 dated 20.2.23.

Gurupur Bridge

Memo. No 1364 Wks/B/22-4d 1-3-23.

The undersigned considers that the case in question might have been disposed of by the S.E.'s personal assistant, as the papers have apparently only been forwarded to the P.W.D. for necessary action.

K.N. 2/3/23 Rlw 2/3/23

C.T.1 1/3

To the S.E. IV circle

J.D. (no call)

JUDICIAL BRANCH 3-MAR1923

Jwc 8.

Note

The memo above is with reference to DS's remarks on SE's letter cnp 18 ult.

K.N. 2/3/23 Rlw 2/3/23

1/3

P.W.D

W

Very Urgent

Memo 1364 WRO B/22-5 & 2.5.23

Gurpur bridge - Revised estimate

The attention of the S.E. Coimbatore circle is drawn to memo No. 1364 WRO B/22-2 & 18.12.22 and his reply to the first reminder thereto No. 1490 & 26.2.23 Supdt and he is requested to report at once whether the revised estimate and plans for the Gurpur bridge have been received from the President, Dt. Board, South Kanara and if so when they may be expected in the Office. The President should be reminded urgently if the plan his reply has not been received

RM
2-5-23

DESPATCHED
2-MAY 1923

To
The S.E. Coimbatore circle
S.O
Remit agreement if received

PM
2/5/23
OFFICE
BM

C.P. 21.

21

Public Works DEPARTMENT.

Very Urgent.

In future letters, please quote No. 559 dated 602 and short title *

Rec'd ____ Enclosures ____

Reg'd ____ Spare copies ____

Telephone No.
Post Box No.
Telegraphic Address

Dated 4th May 1923.

54

WORKS SECTION
-7 MAY 1923
RECEIPT NUMBER
1104

From (Name) C. B. Connell, Esq., A.M.I.C.E.,
(Designation) Officer in charge,
(Address) Coimbatore Circle.

To The Chief Engineer, P.W.D.,
Madras.

Sir,

Ref:- Your No. 1364-Wks-B/22-5, dated 2-5-23.
* Gurpur Bridge - Revised estimate.

The revised estimate and plans for the Gurpur Bridge have been received back from the President, District Board South Kanara and they are under scrutiny.

They may be expected in your office by the 10th instant

S. Venkataramana Aiyar 4-5-23
For Officer in charge,
Coimbatore Circle.

E.A.K./4-5-23.

P3

P.W.D

L.O.M 12-5-23

C.F. 81.

Public Works DEPARTMENT.

In future letters please quote No. 641 dated and short title Bridge	Rec'd ____ Enclosures ____ Reg'd ____ Spare copies ____	Telephone No. Post Box No. Telegraphic Address

Dated 16th May 1923

From (Name) W. G. Molesworth, Esq.,
(Designation) Superintending Engineer,
(Address) Coimbatore Circle.

WORKS SECTION
25 MAY 3
CURRENT NUMBER
1260

To The Chief Engineer, P.W.D.
Madras.

Sir,

* Revised estimate for constructing a girder bridge across the Gurpur river in South Kanara Dt.

With reference to your No. 1364-Wks-B-22 dated 18th December 1922, I have the honour to resubmit herewith the estimate for the work cited above with a copy of explanation of the District Board Engineer with the letter of the President, District Board, South Kanara. The District Board Engineer is not correct in his explanation to the para 4 of Chief Engineer's memo quoted above. No such order for filling the whole of No.5 well with cement -- concrete was ordered vide copy of this office No.439-M dated 16-3-22 enclosed herewith.

Necessary level sheets for the approach road and plans and estimates for the lump sum provision of Rs.34900 with detail data for the item "culverts" received from the -- President, District Board, South Kanara, are submitted herewith.

It is pointed out that the rates for the sub work 'culverts' are higher than the main estimate rates (revised).

The

27

The proportion of cement in 'arch work brick in cement' is too rich.

Sd. W.G.Molesworth, 16-5-23,
Supg. Engineer, Coimbatore Circle.

S. Venkataraman Asst.
For Superintending Engineer,
Coimbatore Circle.

21.5.23 22-5-23

Encls. 17.

1 old estimate.
1 revised estimate
1 sub est. for culverts.
1 detail sheet for earthwork.
10 tracings.
1 copy of letter of President, Dt.Board.
1 copy of explanation by the Dt.Bd.Engr.
1 copy of Supg. Engineer's letter.

E.A.K./21-5-23.

Scott. II–47—697 Bks.—24-1-18 (5).

A. / B. / N.P. } (a)

DEPARTMENT.

ORDINARY / ROUTINE SERIES.

† G.O. No. dated

CIRCULATED. / NOT CIRCULATED. / NOT SEEN BY C.S.

191 .

Receipt numbers ..	3483 [illegible]
Number and date of previous proceedings.	

Tabling Abstract.

[illegible]

(b) **Index Headings.**

MAIN HEADING [illegible]

CROSS REFERENCES.

SPECIAL INDEX.

DO NOT SPECIAL INDEX.

(a) and (b) not to be filled in for 'Routine' series.

Copy of letter R.O.C.No.2488/D.B.22 dated 5-4-23 from M.R.Ry. Rao Bahadur N.Subba Rao, Avl., President, District Board, South Kanara, to the Superintending Engineer, Coimbatore Circle.

Referring to your endorsement No.120-M/620 dated 22-1-23 forwarding copy of the Chief Engineer's remarks on the revised estimate for the Surpur bridge, I have the honour to forward herewith my District -- Board Engineer's explanation called for therein. The following points seem to require further elucidation on my part:-

2. Point 2. In his inspection notes on the bridge-work the -- Superintending Engineer suggested inter alia that diving apparatus with a diver required for the work might be obtained from the Harbour Trust Board or if this was not feasible the apparatus should be purchased. The Chief Engineer, Madras Port Trust, who was approached accordingly in the matter said that neither a diver nor gear would be immediately available. The Agent of the South Indian Railway was next approached; he said that neither a diver nor a diving apparatus was available. Under the circumstances and in consideration of the urgency of the situation we had no other course open to us than to purchase the apparatus and we purchased it accordingly. Whether Government should contribute towards its cost and if so what portion are points for the Government to decide. I leave the matter entirely to the generosity of Government. If Government should decide to contribute, the diving apparatus will be disposed of in such manner as Government may direct.

3. Point 8. No doubt no written statements were obtained from the land-owners. Even supposing that such statements had been taken, I do not think that there was anything to prevent them legally from claiming compensation afterwards. In an Alyasantana family even a minor can question the transaction. What really happened was this. Some of the spokesmen at the conference promised on behalf of the land owners to make over their lands free of compensation. But when others who were not present at the conference claimed compensation in the ordinary course; these spokesmen as well as others who were present at the conference went back on their promises and claimed compensation. The Chief Engineer cannot know the kind of people we had to deal with in this matter. Another important factor that contributed to the increase in the cost of compensation is the abnormal rise in the price

of land in this district. Moreover the price of the land is decided by the Revenue authorities

4. Point II. Tenders were invited for the work in the following newspapers:-

1. The Madras Times.
2. The Hindu.
3. The Times of India.
4. The Bombay Chronicle &
5. The Statesman.

Notices of tenders were also sent to various offices for being pasted on their notice boards and also to various contractors.

Only four tenders were received from the undermentioned contractors:-

1.	L.B.Phatak, Bombay.	All work except steel and paint.	90 per cent above the rates of the sanctioned estimate.
		All work including steel and paint.	75 per cent.
2.	Govinda Raj.		15 per cent above the rates of the sanctd. estimate.
3.	K.S.Akber Haji Hayath Pacha.		10 per cent -do-
4.	Shamji Devjee.		-do- -do-

Tender No. 1 being out of the question, the choice lay between the remaining three tenderers. From enquiries made by me, I was given to understand that among these three tenderers Mr. Govindaraj had vast experience in bridge-building and is a thoroughly reliable contractor I accordingly induced him to reduce his rate from 15 to 12½ per cent. He accepted my offer and I gave the contract to him at 12½ per cent above the estimated rates. I need scarcely say that he has thoroughly justified my choice. He has been able to finish the work within three years which none of the other contractors would have been able to do. He is besides a capitalist and as such has not pestered the Board with frequent demands for payments as others would have done although a pretty large amount is still due to him.

5. Point 16. The District Board Engineer's remarks on this point are endorsed. In view of the sudden increase in the number of motor bus services, the widening of the road was absolutely necessary.

E.A.K./21-5-23. 21.5.23

Explanation of the District Board Engineer.

1. x x x

2. Borings at the sites of the piers were made before the sinking of the wells was commenced in accordance with para 3(a) of the Chief Engineer's note No.855-D dated 24th September 1919. These were taken at three points for each pier at the ends and the centre just to find out the depths to which the wells had to be sunk. These of course could not give the exact contour of the rock surface which the well curbs were expected to touch; and it was decided specially -- regarding the three critical piers Nos. 3, 4 and 5 to take another set of borings right along the angle iron curb to get a more correct idea of the rock contour. These detailed borings revealed, so far as No.3 and 4 were concerned that the rock surface was fairly level.

a. It did not strike me that the results of these borings had to be furnished to the higher authorities. From the Chief Engineer's note No.855-D dated 24th September 19, I understood that the fresh borings had to be taken just to decide the depths the wells had to be sunk to.

b. For pier No.5, the new borings showed that the rock was sloping more or less uniformly across the widths of the pier; and the -- present Superintending Engineer modified the process referred to by his predecessor in his Inspection notes dated 5th January 1921 to suit the final conditions and ordered the benching of the rock -- surface and the underpinning of the vacant space between the angle iron and the rock with the aid of divers. The sheet piling was of course very useful in preventing the blowing in of the sand during the benching and the underpinning operations.

Regarding the contribution by the Government for the extra plant required, the President, District Board, might remark.

3. This has been explained in the remarks column of the comparative statement. As surki takes a longer time to set cement was used for the masonry in staining so that the foundation work of all the piers may be completed in one season. Cement concrete was not used except in one instance when masons were not available, as dressed granite stones were ready at site. There was no excess due to this deviation

as there is corresponding saving in the cement concrete item.

4. In the final stage of the sinking of the 5th pier well the Overseer in charge of the work was sent to Coimbatore to get detailed final instructions from the Superintending Engineer regarding the treatment of the foundations. From the Overseer I understood that the well had to be fully plugged with -- concrete so as to get one monolithic block underneath the pier superstructure. By clerical error Chief Engineer was noted for Superintending Engineer.

5. On account of the flowing in of water during high tide these extra depths of concrete at top of wells were found necessary and the excess due to this is only 350 cft. and the additional cost is Rs.211.0.0.

6. I did not obtain orders to use reinforced concrete slabs over the top of wells. I used them however as I found it easier to get the correct level and to remove the effects of the slight cant. I also thought it safer to use a monolithic reinforced concrete slab than to corbel with masonry as provided for in the original estimate.

7. By mistake, the fact that 4 feet of concrete steining -- immediately above the reinforced curb of the 5th well was found necessary was not entered in the remarks column of the comparative statement. This has now been corrected.

8. The question of land acquisition is purely a concern of the Revenue authorities and the District Board. Further before preparing the original estimate the District Board had approved of the change in the alignment without any condition as regards compensation.

9. This has already been explained in the comparative statement. In the original estimate lump sum provision was made as was done in the case of other big works like this in the past. During investigation it was intended to close up many of the minor drainage channels and divert them elsewhere; so only 15 sluices and culverts were provided for. During actual execution on account of the objections of the land owners we had to put up more culverts than originally intended.

10. In the original sanctioned estimate only lump sum provision was made and no detailed plans were given and hence it was not thought necessary to give details in the revised estimate. Only provision on actuals was made. The necessary plans and details of the culverts are now enclosed as called for.

11. Contracts in this district have always been schedule ones in accordance with instruction 403 of the Local Board's Manual and Article 497 of the old Local Fund Code. Hence the tender percentage accepted by the President was entered only at the end and not separately for each item.

12. This was provided for only as a precautionary measure in case of necessity and can be omitted.

13. Noted and necessary corrections made.

14. The amount provided in the original estimate was retained in the revised estimate also just to meet any baling charges found necessary when building revetment works round abutment piers which were still in progress when the revised estimate was sent up. As the work is not finished yet, the whole amount may be retained.

15. The approaches of the road dams are revetted on both sides to prevent breaches; sections of the road dam are enclosed.

16. Level sections with fresh details of earthwork for approach banks are now enclosed. When preparing the original estimate it was intended to keep the road width to that provided in the -- original estimate; but subsequently when the work was put on hand the road width in some portions, curves, was increased under the orders of the President, so as to meet the new conditions of heavy motor and bus traffic that has come on to this road since the preparation of the original estimate; and when the bridge is opened for traffic a large part of the motor traffic from the Coast Road even will be diverted to this road as being the quickest route though not the shortest.

Sd. U. Sanjiva Rao, 22-2-23,
Dt. Board Engineer, S.Kanara.

E.A.K./21-5-23. 21.5.23

29

Copy of letter No. 439-M/620-Z-16, dated 16-3-22 from P.Hawkins, Esq., M.Inst.C.E., Superintending Engineer, Coimbatore, to the -- District Board Engineer, South Kanara.

Ref:- A.Ref. No. 745-D-E-21, dated 10-3-22.

--

I understand from the Overseer who brought the letter and who gave me details, that the well could be sunk a foot into the soft rock ~~and~~ on the north side which will leave the south side only about a foot above the rock. The samples of laterite sent for inspection are ~~cut~~ not from ~~soled~~ solid laterite; in fact most of them appear to have been loose pieces. The steel piling is still in position and is about 9" outside the curb. The well should be sunk as far as possible into the rock on the north side. Any gap that remains on the south side should then be plugged with cement bags pushed through to the piling and well packed and grouted as already proposed. The concrete plugging at the -- bottom of the well should then be carefully packed into the sides by the diver, taking care not to stir it up and separate the casement. This will require careful work.

Note by the Chief Engineer, Public Works Department No.1364-Wks-B-22-6, dated the 2nd August 1923.

****

The Superintending Engineer, Coimbatore Circle (Old IV Circle) submits for sanction a revised estimate amounting to Rs. 5,33,000 for constructing a girder bridge of 5 spans of 105 feet across the Gurpur river on road No. 5 from Mangalore to Mysore via Agumbe Ghat, South Kanara District, the original estimate for which for Rs. 3,97,000 was sanctioned in G.O.No.1666-W, dated 18th December 1919.

2. The excess of Rs. 1,36,000/- over the sanctioned estimate is due chiefly to the following:--

(a) To the purchase and use of sheet piling and diving gear etc., at a cost of about Rs. 20,000 for constructing well foundations.

(b) To the excess of Rs. 18,000/- under item "forming approach banks" due to the extra lead and lift allowed for earthwork, to the breaches in the bank newly formed on account of floods and to other causes.

(c) To the excess of Rs. 29,650 under item "culverts" due to the construction of 32 culverts and sluices during execution as against 15 culverts and sluices provided in the sanctioned estimate.

(d) To the excess of Rs. 20,000/- under item land compensation, the provision made in the sanctioned estimate being found inadequate as compensation had to be paid for lands for which the owners promised to claim no compensation at the time of the preparation of the original estimate.

(e) To the increase in rates, the lowest tender rates being about 12½ per cent over the sanctioned estimate-- Rs. 34,500/-.

(f) To the excess under minor items -- Rs. 13,850/-.

3. The revised estimate has been scrutinised and the points requiring remarks are dealt with below:--

(a) An expenditure of about Rs. 20,000/- has been incurred for the purchase of sheet piling and diving gear etc. A sum of Rs. 5,000/- has been credited to the estimate as the piles etc., may be kept in stock and used for other works in the District.

(b) It is observed that the District Board Engineer has on his own responsibility used reinforced concrete slabs over the top of wells. As this work has caused an extra expenditure of Rs. 6,365, the District Board Engineer should have obtained atleast the previous orders of the Superintending Engineer before incurring this expenditure.

(c) The provision for 32 culverts made in the revised estimate as against the sanctioned provision for 15 culverts is approved, as it is reported by the District Board Engineer that the original proposal to close many of the minor drainage channels and divert them elsewhere was objected to by the landowners during actual execution. The waterway provided for the culverts should be approved by the Superintending Engineer.

(d) The provision of apron round piers has been omitted as unnecessary.

(e) As the work is nearing completion the actual amount spent on baling should have been entered in the revised estimate. The President, District Board, should satisfy himself that the expenditure shown under this head is reasonable.

(f) It is observed from the cross section of the road dam that gravel backing has not been provided under revetment. The section of the dam should be as shown in the sketch in the margin. At C.S. Nos. 12 to 15 and 49 to 53 the road runs in cutting and the sides are proposed to be cut vertically. Although the approach runs through rocky soil a slope of ¼ to 1 should be allowed. As the country is very steep between C.S Nos. 16 to 47 the advisability of providing breast walls with parapet in this length should be considered during execution. Provision should be made for side and catch drains.

(g) It is observed that the rates provided for culverts are in excess of the rates provided in the estimate for the bridge work. The rates provided in the estimate for the two works should be the same as these works are situated at about the same locality. The contractor who tendered for the bridge may be asked to do this work also as this forms part of the bridge construction.

4. With the foregoing remarks the revised estimate as altered in the Chief Engineer's Office amounting to Rs. 5,24,300/- is recommended for sanction.

P.S./3-8-23.

P.W.D

p 1 CF Cir. No. 1364 W&B From the S.E Coimbatore Circle Nr. 814/620-2H & 13.7.22

p 6 CF Memo to .. .. .. Nr. 1364 W&B/22-1 & 2.8.22

pp 7-8 CF 2283 W&B From the .. .. .. Nr. 1270W/620-2H & 28/76 7.22

pp 9-11 CF Memo to .. .. .. Nr. 1364 W&B/22-2 & 15.12.22

pp 22-23 CF. 1260 W&B From the .. .. .. Nr. 641 W/620 RW6 & 16/20 7.23

pp 30-32 CF Note by the Ch Engr PWD Nr. 1364 W&B/22-6 & 2.8.23

Gurpur Bridge : Revised estimate

No 35

'P' In Ref Nr. 1666 W & 18.12.19 plans and estimate amounting to Rs 397,000/- were sanctioned for the Construction of a girder bridge across the Gurpur river in the South Kanara Dt. The work has now been nearly completed & the S.E Coimbatore Circle has transmitted

p 1 CF a revised estimate amounting to Rs 5,33,000/- for the work. The excess over the estimate already sanctioned, is Rs 136,000/- or nearly 35%. The reasons therefor are explained in the Comparative

X 533000 397000 136000

'I' statt & in the Bd Board Engrs letter on pp 2 & 8-9 CF

The revised estimate has been scrutinised by the Ch Engr and his

pp 30-32 CF remarks are contained in the note read above. As a result of the scrutiny the revised estimate has been

reduced

reduced to Rs 5,24,300/-. The Ch. Engr's recommendation that the altered estimate may be accepted may be approved

Under Govt. No. 1250 L&M dt 16.12.20. Govt. undertook to bear half the cost of the original estimate of Rs 3,97,000/-. The question is to how the present excess of Rs 127300/- is to be apportioned will have to be considered in the administrative Deptt. Concerned (or) the L.S.G. Deptt. in consultation with Finance

A draft order sanctioning the revised estimate is submitted & may be sent to the L.S.G & Finance Depts for acceptance prior to sanction

524300
397000
127300

5.8.23 RW 8/8

9/8/23

8/8/23

Proc No 1364 WRS(B)/m-7
10.8.23
with connl file

L.S.G. } n.v.
Finance }

L & G

The draft may be accepted L.S.G and the file passed on to Finance.

2. In financing please see note in the Council file

L.S.G no 19/53-1 dtd 16.8.23

K3 13.8.23

14/8/23

Fin.

Adl

Lr no 1965 Xdm 5.9.23 (T)

15.8.23.

Finance Deptt.

Submitted that the draft order may be accepted

31.8.23.

31/8/23

L-89

P.W.D.

4.9.23

P.W.D.

US

The draft order may now be forwarded to M3, M1, and C1

8/9/23

9/9/23

M3 11/9/23 Are funds in sight please note ?

M1

C1 M. 14.9.23.

P.W.D. Box no. 59

19-9-23

The excess in the estimate appears to be due in a large degree to careless estimating in the first instance, unbusinesslike management and departures from the estimate, which in some instances were unauthorised. It is quite clear that we cannot undertake to pay half grants on excesses to local bodies which put up inaccurate estimates and then depart from them. I do not understand exactly on what lines the L.S.G. department propose to deal with the question of grants, but I think it should be made clear that it is doubtful if anything can be given under the conditions named and very doubtful if we can give the full 50 per cent, and I would suggest that some warning to that effect to the District Board should issue as part of the present ~~ex~~ order of approval of the estimate

20.9.23

Received on 21-9-23

The file may be sent to L.S.G. for remarks with reference to A/3's note on page 3 ante and C's note above.

21.9.23 21/9/23 21/9/23

Submitted that provision has been made in the C.B.E for the current year for a grant of Rs 60000 to the South Kanara D.L Board for the Gurpur

P 2980 976 dtd 25/4/23

25 SEP 1925

22826

Gurpur bridge - The amount represents one half of the excess of the revised estimate as framed by the Dt. Bd. over the Sanctioned estimate.

Est. Cost as per revised Est. framed by the Bd } 5,33,000
Original Sanctd Estimate } 3,97,000
2 | 136,000
68,000.

2. The South Kanara Dt. Board had already received the half grant promised, on the basis of the Sanctioned estimate. In July last, it applied for the balance of half grant with reference to the revised estimate framed by it viz. for a grant of Rs 68,000. The Finance Dept. agreed to the proposal to sanction to the Board a grant equal to one-half of the excess in the revised Estimates.

∝ Rs 198500
Gt. p 4980 1965 (T) 5.9.23
p 69-dn (T)

A grant of Rs 48,554 was sanctioned in accordance with this arrangement. The amount sanctioned represents the amount required to make up the half share of the Govt. with reference to the expenditure actually incurred upto 30.6.1923. The grant yet due to the Board according to the revised estimate as altered by the Chief Engineer is Rs 15096, and there

p. 49 (T)

Amount of RE as passed by CE } 5,24,300
Grant due } 2,62,150
Grants already paid } 247,054
15,096.

there is provision for it in the CBE - ~~In the circumstances the insertion of a para~~
with reference to the orders of the ~~as directed by~~ HM, Finance on page 4 supra,
~~I would have made~~ the following addition
Sd/- 4/10/23 may be made in the draft as
para. 2 :—

"The Govt have paid a grant of Rs 247054 towards the cost of this work. ~~The question~~ The question whether any further grant should be made ~~to the Dist Bd for this work having regard to the~~ will be considered in the S.S.G. Dept."

On receipt of the order from PWD with a copy of the note, the question will be submitted for orders

Sd/- 6.10.23 Sd/- 8.10.23.

S.S.G.
L.Dy. No 22826-1 Dy
10/10/23

Secretariat
17 OCT 1923
CURRENT RECORDS

Secy PWD

P.W.D

US

The file may now be recirculated to M_3, M_1 and C_1 for orders whether the draft order with the addition noted in para 2 above may be issued

Sd/- 12/10 M_3

Sd/- 13/10/23 M_1

Sd/- 16.10.23 C_1

Sd/- 14/10/23

Sd/- 15/10/23

Sd/- 16.10.23

P. W. D. Box no 57
13-10-23
Recd on 17-10-23

Sd/- 17/10 US
Sd/- 17/10

Sd/- 17/10/23

US
(P.T.O.)

7

PWO

US

The draft order has been added to with reference to HH's orders overlap

It may now be approved ~~and issued~~.

RW
17-10-25

3 x 5

Secrt. II-10 (a)—48,962—2-2-22. (5)

P

..... DEPARTMENT.

	Date.	Initials.
When received for Fair-copying.		
When copied ..		
When examined ..		
When signed ..		
When despatched ..		

P

READ AGAIN G.O No ..... dated 18.12. 1922

" " " " 192

READ ALSO:

C. No. 354 pp 1-2 From the S.E Circle Cuddalore, No. 874 dated 13.7. 1922

" " " " pp 30-32 C.E Engr Pub Wks 13 2.8. 1923

" " " " " " 192

ORDER. No. 1651 W dated 11-10 1923.

'P'

The Superintendent in the estimate for Rs 397,000/- sanctioned in the PWD Board proceedings above, the revised estimate for the construction of a girder bridge across the Gurjpur river in the South Arcot Dt, as altered by the Ch Engr Pub Wks and amounting to Rs 524,300/- is sanctioned subject to the conditions of the Ch Engr contained in his letter read above

2

The Govt. have paid a grant of Rs

The PWD South Engineer for the plans estimates

" S.E Coimbatore Circle

" H.G. Madras

" C.S. to do & to Mr with a Copy of the letter

Rs 2,47,054 towards the cost of the work. The question whether any further grant should be made to the Dt. Board will be considered in the L.S.G. dept.

17.10.23

Sctt. II-47—697 Bks.—24-1-18 (5).

PW DEPARTMENT.

B. / N.P. } (–)

ORDINARY / ~~EXPRESS~~ SERIES.

† G.O. No. 10 576, dated 19 – X – 1913.

CIRCULATED. M.H.C.

NOT CIRCULATED.

NOT SEEN BY C.S.

Receipt numbers ..	1364 (2 Nos B)
Number and date of previous proceedings.	

Tabling Abstract.

Bridges. South Kanara - Jurdem bridge across the Gurpur river. Construction - revised estimate Rs 5,24,300/- Sanctioned

(b) **Index Headings.**

MAIN HEADING Bridges

CROSS REFERENCES.

SPECIAL INDEX.

DO NOT SPECIAL INDEX.

(a) and (b) not to be filled in for 'Routine' Series.